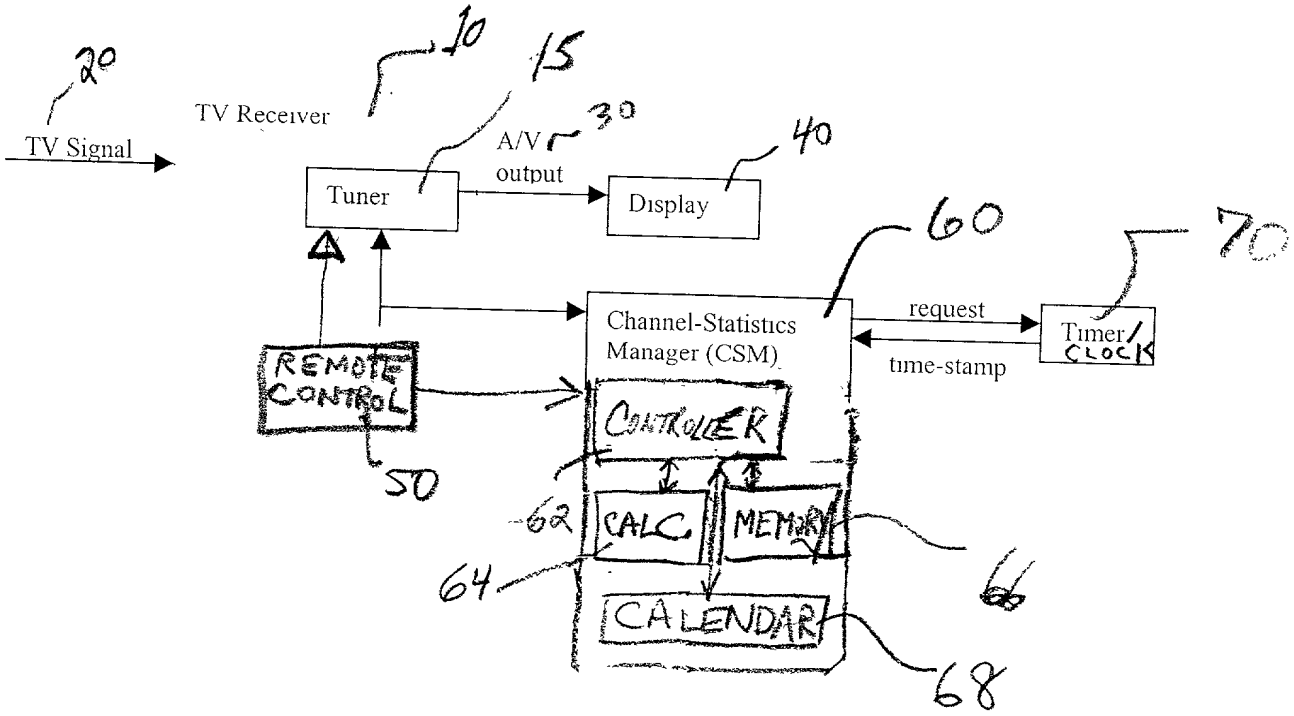
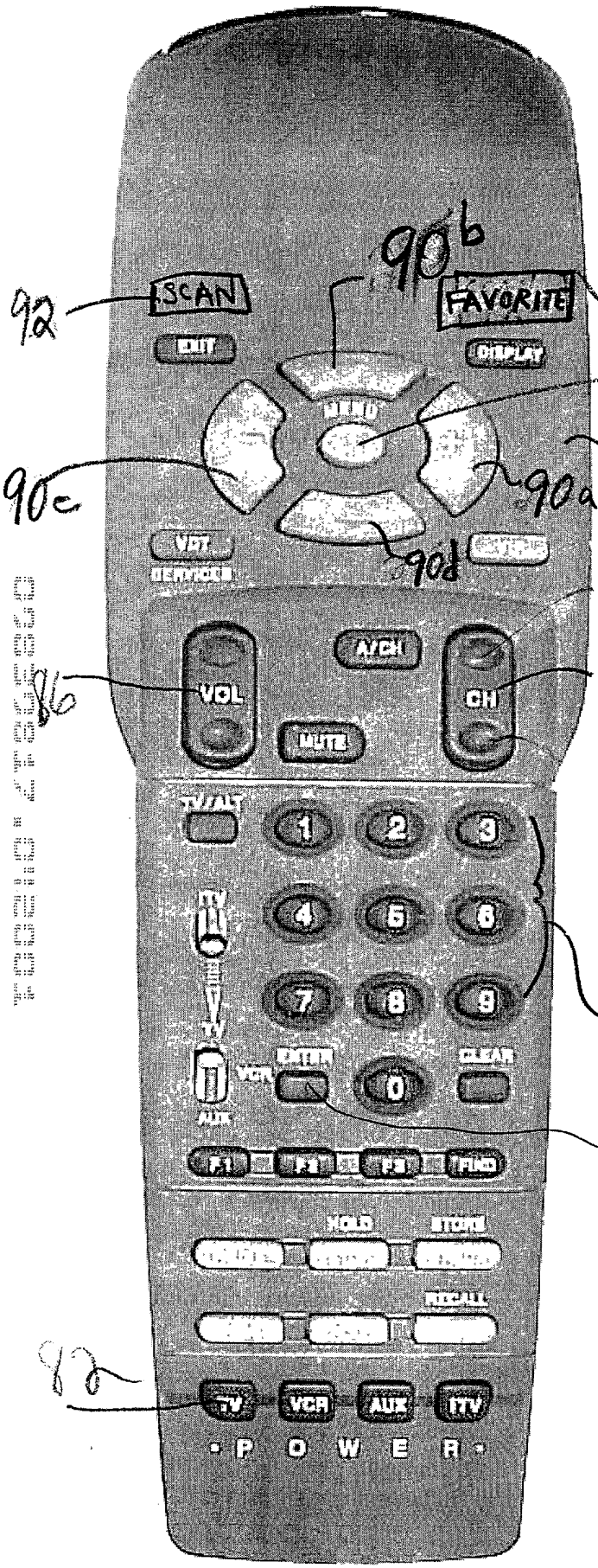

20
TV Signal
TV Receiver
10
15
A/V
output
30
40
Tuner
Display
60
70
Channel-Statistics
Manager (CSM)
request
time-stamp
Timer/
CLOCK
REMOTE
CONTROL
50
CONTROLLER
62
CALC.
MEMORY
64
66
CALENDAR
68

FIG. 1



90b 93 92 88 50 90c 90a 90d 84 86 80 91 82

FIG. 2

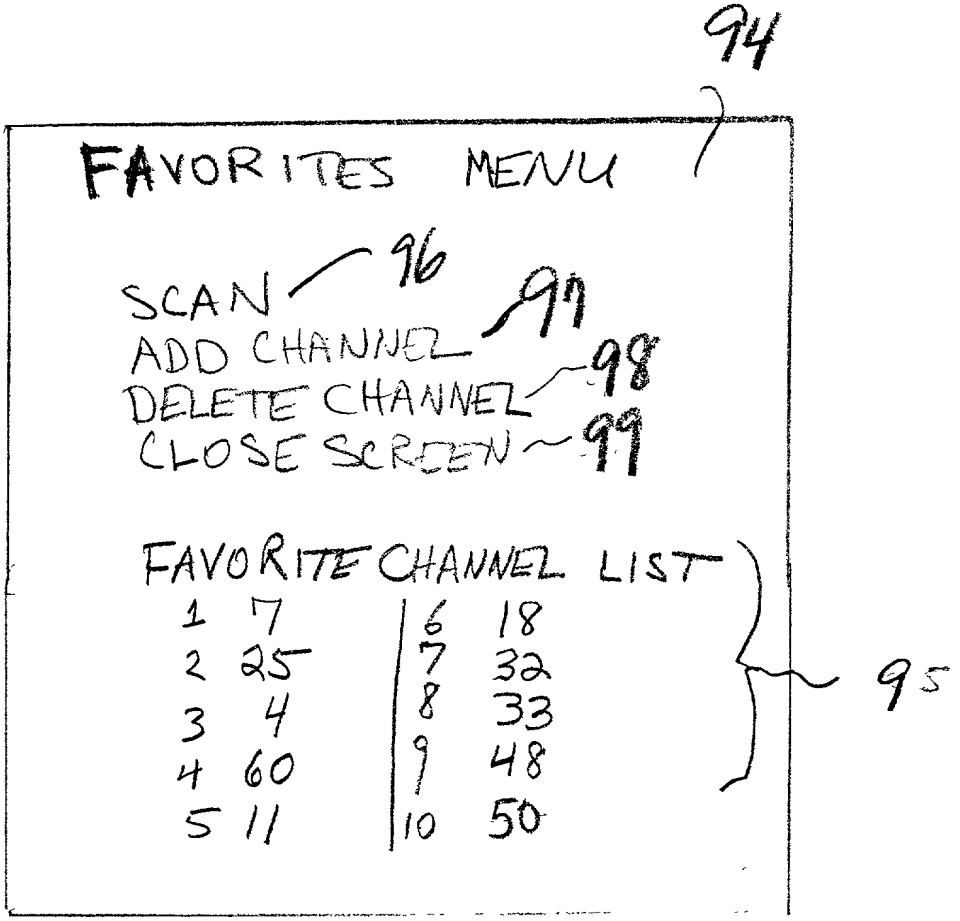

94
FAVORITES MENU
SCAN
96
ADD CHANNEL
97
DELETE CHANNEL
98
CLOSE SCREEN
99
FAVORITE CHANNEL LIST
1 7
2 25
3 4
4 60
5 11
6 18
7 32
8 33
9 48
10 50
95

FIG. 3

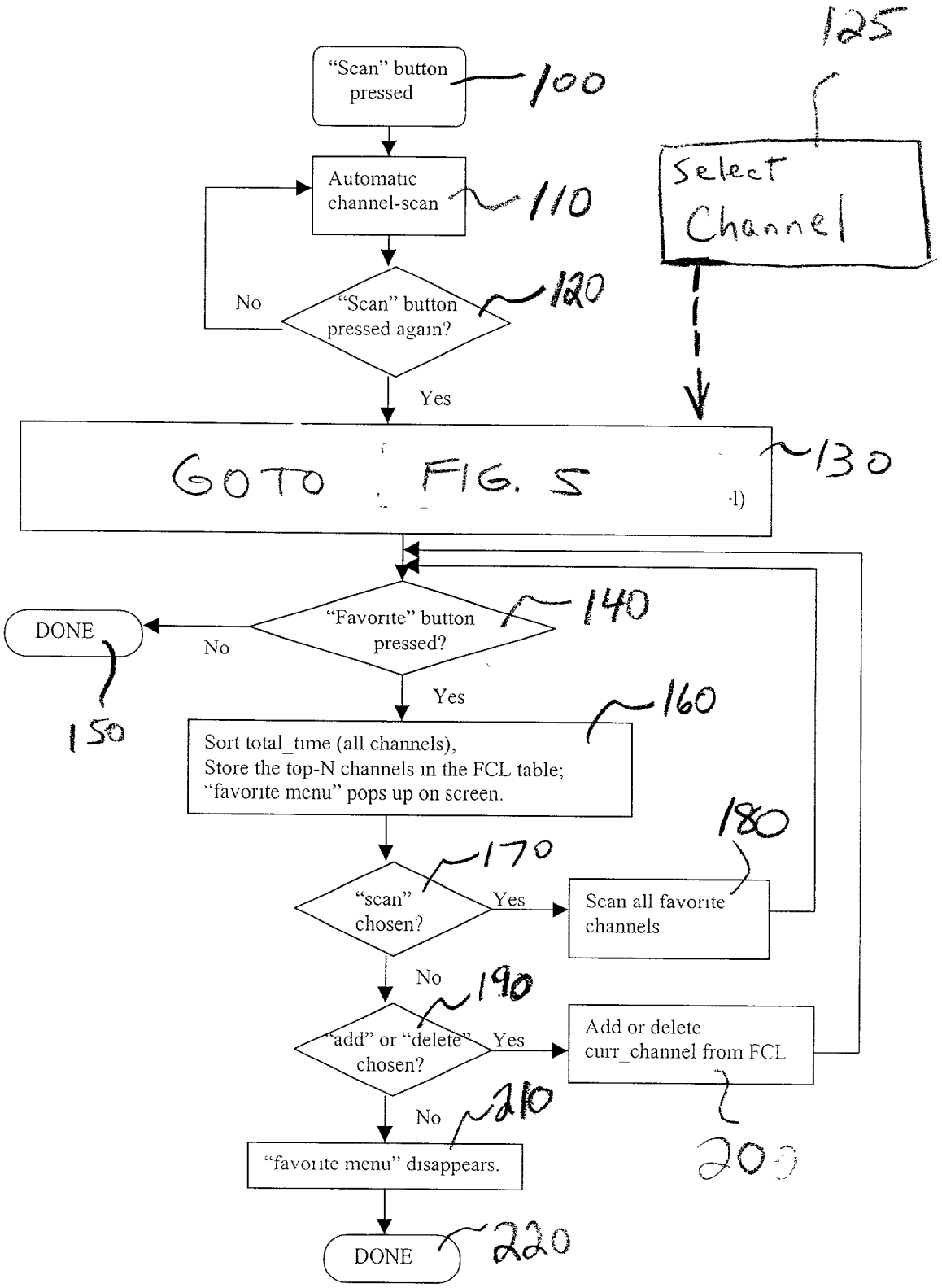

"Scan" button pressed
100
Automatic channel-scan
110
"Scan" button pressed again?
120
No
Yes
125
Select Channel
GOTO FIG. 5
130
"Favorite" button pressed?
140
DONE
No
150
Yes
Sort total_time (all channels), Store the top-N channels in the FCL table; "favorite menu" pops up on screen.
160
"scan" chosen?
170
Yes
Scan all favorite channels
180
No
"add" or "delete" chosen?
190
Yes
Add or delete curr_channel from FCL
200
No
"favorite menu" disappears.
210
DONE
220

FIG. 4

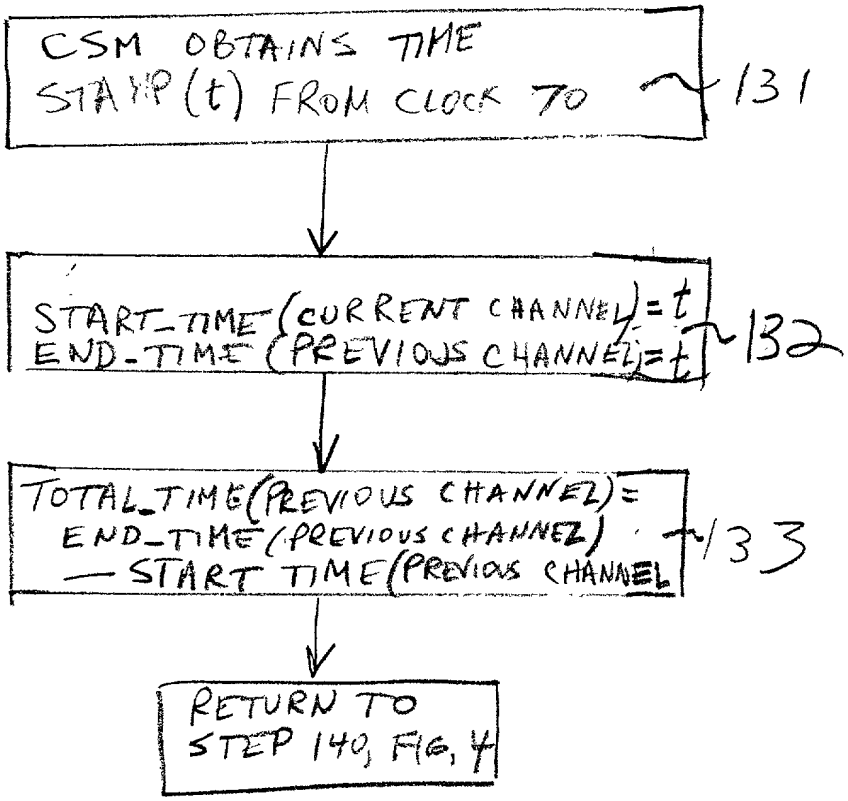

CSM OBTAINS TIME STAMP (t) FROM CLOCK TO
131
START_TIME (CURRENT CHANNEL) = t
END_TIME (PREVIOUS CHANNEL) = t
132
TOTAL_TIME (PREVIOUS CHANNEL) = END_TIME (PREVIOUS CHANNEL) — START TIME (PREVIOUS CHANNEL
133
RETURN TO STEP 140, FIG. 4

FIG. 5